

**Notice of Allowability**

Application No.

09/838,743

Examiner

Johannes P Mondt

Applicant(s)

DEBOY ET AL.

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 05/28/2004.
2. ☒ The allowed claim(s) is/are 1,6,7,9,10 and 13.
3. ☒ The drawings filed on 4/19/01 and 1 Replacement Sh.(05/28/04) are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Minhloan Tran*  
**Minhloan Tran**  
**Primary Examiner**  
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***Response to Amendment***

Amendment filed 05/28/04 forms the basis of this Official Action. In said Amendment Applicant substantially amended pending claims 1, 6, 7, 9 and 10 through substantial amendment of independent claim 1. Applicant added new claim 13. Applicant provided a Replacement Sheet for Sheet 1 of the Drawings of Figures 1 and 2.

***Drawings***

1. The drawings involving a Replacement Sheet for Sheet of the Drawings (Figures 1 and 2) were received on 05/28/2004. These drawings are approved.

***Response to Arguments***

2. Applicant's arguments, see Remarks/Arguments, filed 05/28/04, with respect to new matter issues have been fully considered and are persuasive. The rejections under 35 USC 112, first paragraph, have been withdrawn, in view of the Replacement Sheet in conjunction with convincing arguments by Applicant concerning disclosure in the original Specification (cf. sections [0004] for insulated gate, [0049] and [0066] for compensation regions (24 and 27), further zone of first conductivity 10 and punch-through regions 12.

**REASONS FOR ALLOWANCE**

**Claims 1, 6, 7, 9, 10 and 13 are allowed.**

1. The following is an examiner's statement of reasons for allowance: Closely related art is Park et al (6,051,850) as cited. Park et al do not teach compensation

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regions, and although Chen (US 2003/0160281 A1) as cited do teach compensation regions 1 (cf. front figure) said compensation regions do not meet the newly introduced claim limitation requiring the inclusion of columnar, vertically extending compensation areas. Said limitation is (a) not obvious over any of the prior art cited to date, and is (b) disclosed through columnar regions 24 in the application. For disclosure see section [0066] in the Specification.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johannes P Mondt whose telephone number is 571-272-1919. The examiner can normally be reached on 8:00 - 18:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JPM  
July 25, 2004